Synology®

# DiskStation

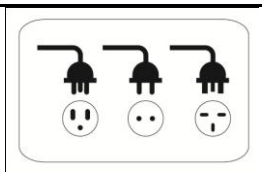
## DS110j, DS110+

# Quick Installation Guide

**Document ID:** Synology_QIG_1bayCL_20111017

# SAFETY INSTRUCTIONS

Please read these safety instructions carefully before use, and keep this manual in a safe place for your future reference.

| | | |
|---|---|---|
| | | |
| Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity. | Do keep Synology product upright. Do not lay it down horizontally. | Do not place the Synology product close to any liquid. |
| | |  |
| Before cleaning, unplug the power cord first. Wipe Synology product with damp paper towels. Do not use chemical or aerosol cleaners to clean it. | Do not place the Synology product on a cart, table, or desk, which is not stable to avoid the product from falling over. | The power cord must plug in to the right supply voltage. Make sure that the supplied AC voltage is correct and stable. |

# PACKAGE CONTENTS

Before you begin, please check the package contents to verify that you have received the items below.

| | | |
|---|---|---|
| | | |
| Main Unit X 1 | Installation CD | AC power adapter |
| | | |
| 2M RJ-45 LAN cable | AC power cord | |
| **Assembling Kit** | | |
| | | |
| Screws for fixing Hard Disk X 6 (2 spares) | Screws for fixing the Synology Case X 3 (1 spare) | |

# Synology DiskStation at a Glance

| No. | Article Name | Location | Description |
|---|---|---|---|
| **1)** | Power Button | Front Panel | The power button is used to turn Synology DiskStation on or off.<br><br>To turn off Synology DiskStation, press the power button and hold it until you hear a beep sound and the Power LED starts blinking. |
| **2)** | LED Indicators | Front Panel | The LED indicator is used to display the status of the internal disk and the system. For more information, see "LED INDICATION TABLE" at the end of this document. |
| **3)** | USBCopy Button | Front Panel | The USBCopy Button lights up when you connect a USB Device (for example: digital camera, USB flash disk) to the USB port on the front panel. Pressing the button will copy the data from the connected USB device to Synology DiskStation's internal HDD. |
| **4)** | USB Port | Front & Back Panel | The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices. |
| **5)** | eSATA Port[1] | Front Panel | The eSATA port is for connecting with an external SATA HDD. |
| **6)** | Fan | Back Panel | The fan is built to exhaust waste heat out of Synology DiskStation. It will start automatically when the server starts. If the fan is malfunctioning, system will beep every 1 second. |
| **7)** | RESET Button | Back Panel | 1. To restore IP, DNS, passwords for the **admin** account to default value.<br><br>2. To reinstall the Synology DiskStation. |
| **8)** | LAN Port | Back Panel | The LAN port is where you connect RJ-45 cable to Synology DiskStation. |
| **9)** | Power Port | Back Panel | The power port is where you connect the AC adapter to Synology DiskStation. |

[1] DS110+ only.

# INSTALL HARD DISK

Disk Station requires one 3.5” SATA hard disk for installation. Refer to the following steps for details:

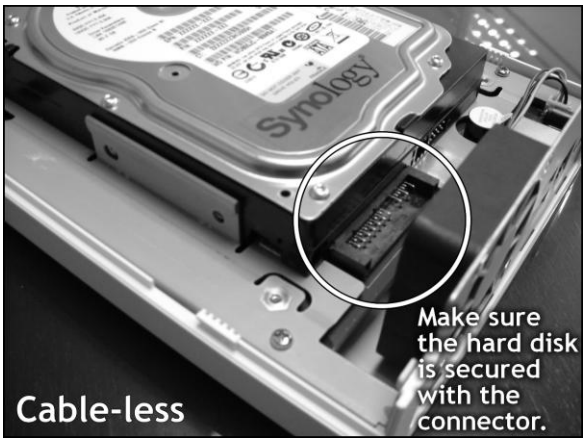
**Warning!** If you use a hard disk with data on it to install, system will format the hard disk and erase all data in some cases. Please back up the data if you need it in the future.

1. Place the server horizontally on a desk. The rear panel should be facing you.

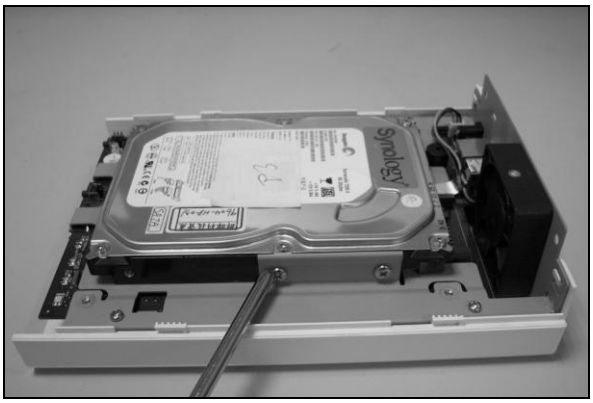
2. Push to slide away the upper case.

3. Pull up the upper case.

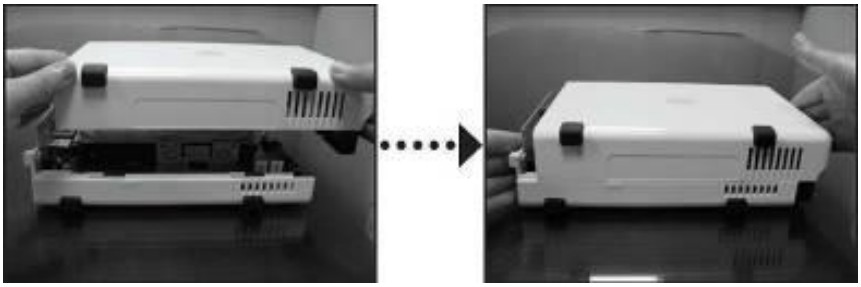
4. Place the hard disk inside the HDD bay.




5. Fix the hard disk with the 4 HDD screws provided.




6. Attach the upper case and slide it back.

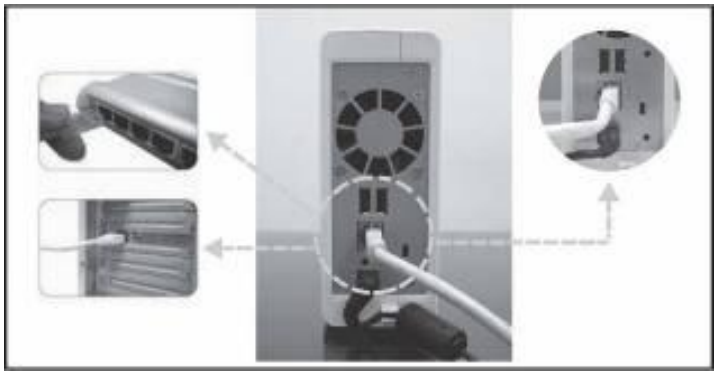


7. Fix the case with the 2 case screws provided.

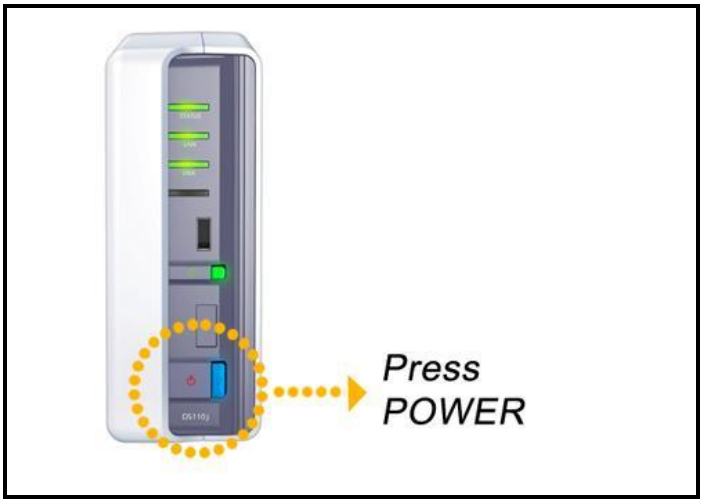
# TURN ON SERVER

1. Connect the AC power adapter to the server and plug in the AC power cord to the power outlet.

2. Use the LAN cable to connect the server to your switch/router/hub.



3. Press the power button on the front panel to power up the server. Wait for the POWER LED to be constant blue.



# INSTALL SYSTEM SOFTWARE

## Windows User

1. Insert the installation CD to your computer.

2. Choose “Start” on the autorun menu.

3. Follow the on-screen instructions to complete the setup process.

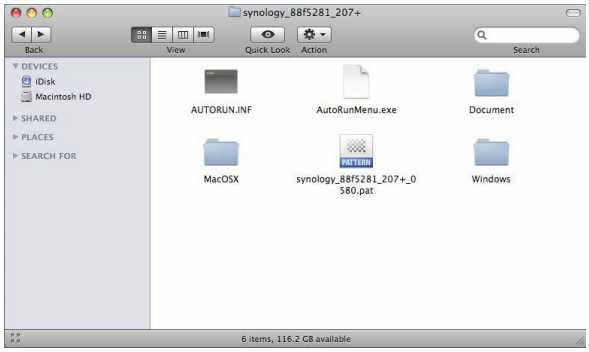
Note: If you choose One-Click Setup, the admin password will be blank.

## Mac User

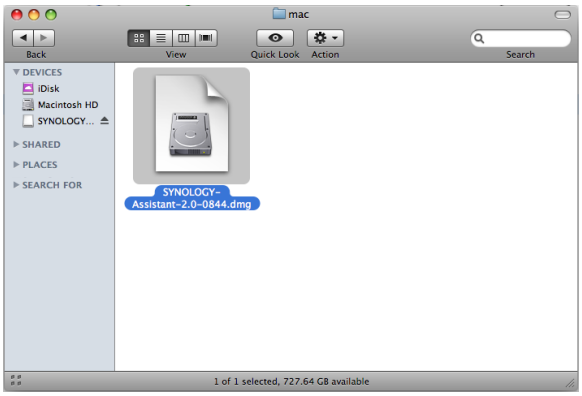
1. Insert the installation CD to your computer.

2. Double click on the CD-Rom Drive thumbnail.

3. Double click MacOSX.

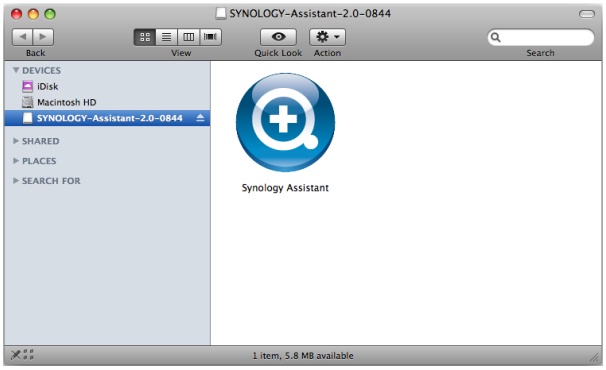



4. Double click SYNOLOGY-Assistant.dmg.




5. Double click on the automatically generated thumbnail SYNOLOGY-Assistant.dmg on the desktop.

6. Double click Synology Assistant to run the Setup Wizard.




7. Click Browse to select the ".pat" installation file in the installation CD.
8. Follow the on-screen instructions to complete the setup process.

Note: If you choose One-Click Setup, the admin password will be blank.

# CONGRATULATIONS!

Server has been set up. Refer to the User's Guide in the installation CD for advanced settings and management. For more information or online resources, please visit http://www.synology.com.

# SPECIFICATIONS

| Item | DS110j | DS110+ |
|---|---|---|
| Internal HDD | 3.5 SATA (II) x 1 | 3.5 SATA (II) x 1 |
| Max. Capacity | 3TB | 3TB |
| Hot Swappable HDD | No | No |
| External HDD Interface | USB x 3 | USB x 3<br>eSATA x 1 |
| LAN Port | Gigabit x 1 | Gigabit x 1 |
| USBCopy | Yes | Yes |
| Size (HxWxD) (mm) | 160 x 63 x 218 | 160 x 63 x 218 |
| Weight (Kg) | 0.81 | 0.81 |
| Supported Clients | ・Windows 2000 onward<br>・Mac OS X 10.3 onward<br>・Ubuntu 9.04 onward | |
| Max. User Accounts | 512 | 2048 |
| Max. Group Accounts | 128 | 256 |
| Max. Shared Folder | 256 | 256 |
| Max. Concurrent Connections | 64 | 256 |
| Max. Supported IP Cameras | 5 | 12 |
| File System | ・EXT4・EXT3・FAT (External Disk, Read/Write) ・NTFS (External Disk, Read/Write) | |
| Volume Type | ・Basic | |
| Agency Certifications | ・FCC Class B ・CE Class B ・BSMI Class B | |
| HDD Hibernation | Yes | Yes |
| Scheduled Power On/Off | Yes | Yes |
| Wake on LAN | No | Yes |
| Language Localization | ・English ・Deutsch ・Français ・Italiano ・Español ・Dansk ・Norsk ・Svensk<br>・Nederlands ・Русский ・Polski ・Magyar ・Português do Brasil ・Português Europeu ・Türkçe ・Český ・日本語・한국어・繁體中文・简体中文 | |
| Power Consumption And Environment Requirements | ・Line voltage: 100V to 240V AC<br>・Frequency: 50/60Hz<br>・Operating Temperature: 40 to 95˚F (5 to 35˚C)<br>・Storage Temperature: 15 to 155˚F (-10 to 70˚C)<br>・Relative Humidity: 5% to 95% RH<br>・Maximum Operating Altitude: 10000 feet (3048m) | |

# LED INDICATION TABLE

| LED Indication | Color | Status | Description |
|---|---|---|---|
| STATUS | Green | Static | Volume normal |
| | | Off | HDD Hibernation |
| | Orange | Static | Available volume space < 1GB |
| | | | Available volume space < 1 % |
| | | Blinking | Volume degraded or crashed |
| | | | No volume |
| LAN | Green | Static | Gigabit Link |
| | | Blinking | Network is active |
| | | Off | Network is down |
| DISK / eSATA | Green | Blinking | Disk is being accessed |
| | | Off | Disk is normal |
| USBCopy | Green | Static | USB disk detected |
| | | Blinking | Copying data |
| | | Off | No USB disk attached |
| Power | Blue | Static | Power ready |
| | | Blinking | Booting up |
| | | | Shutting down |
| | | Off | Power off |